

FIG. 1

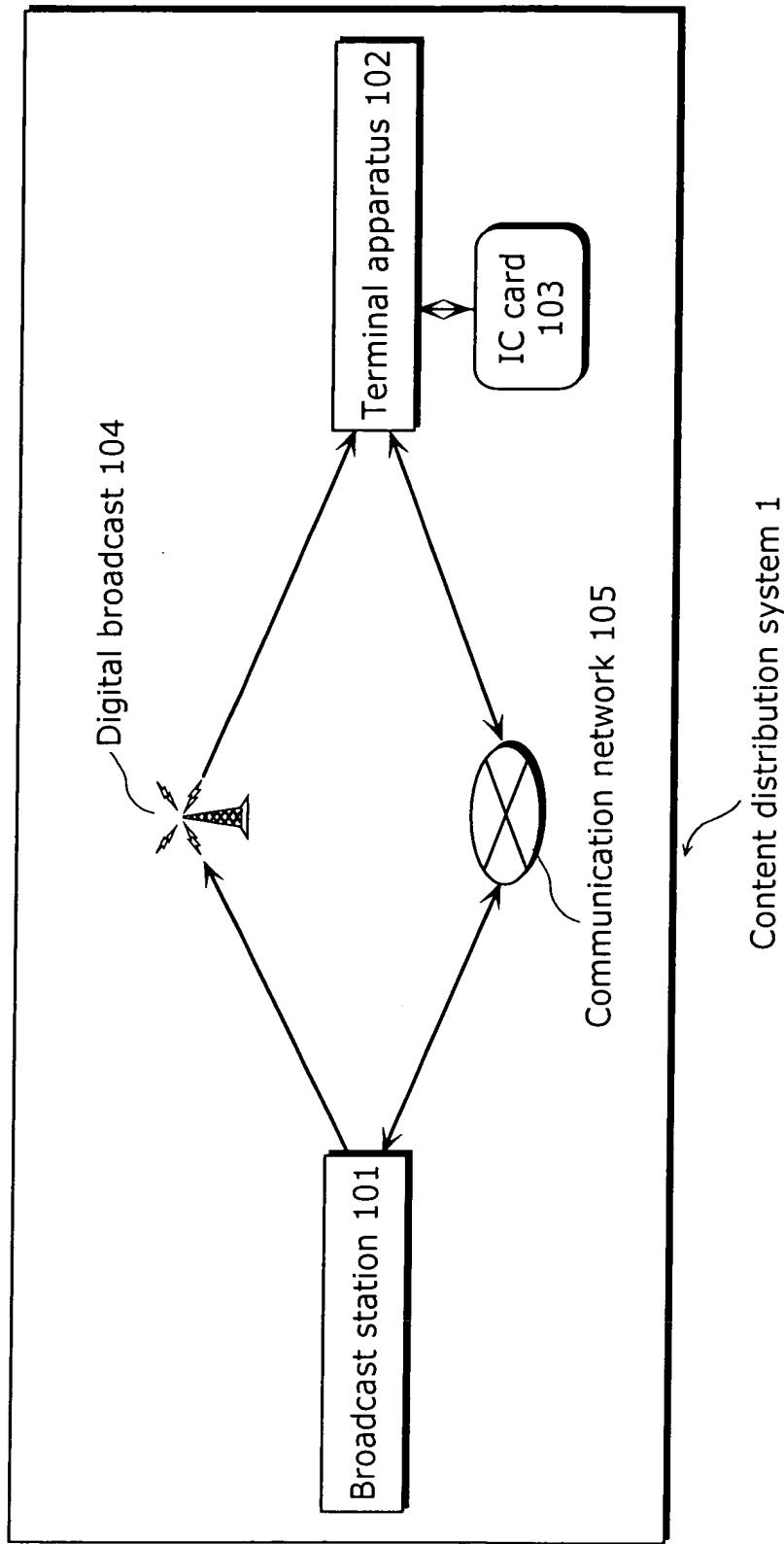


FIG. 2

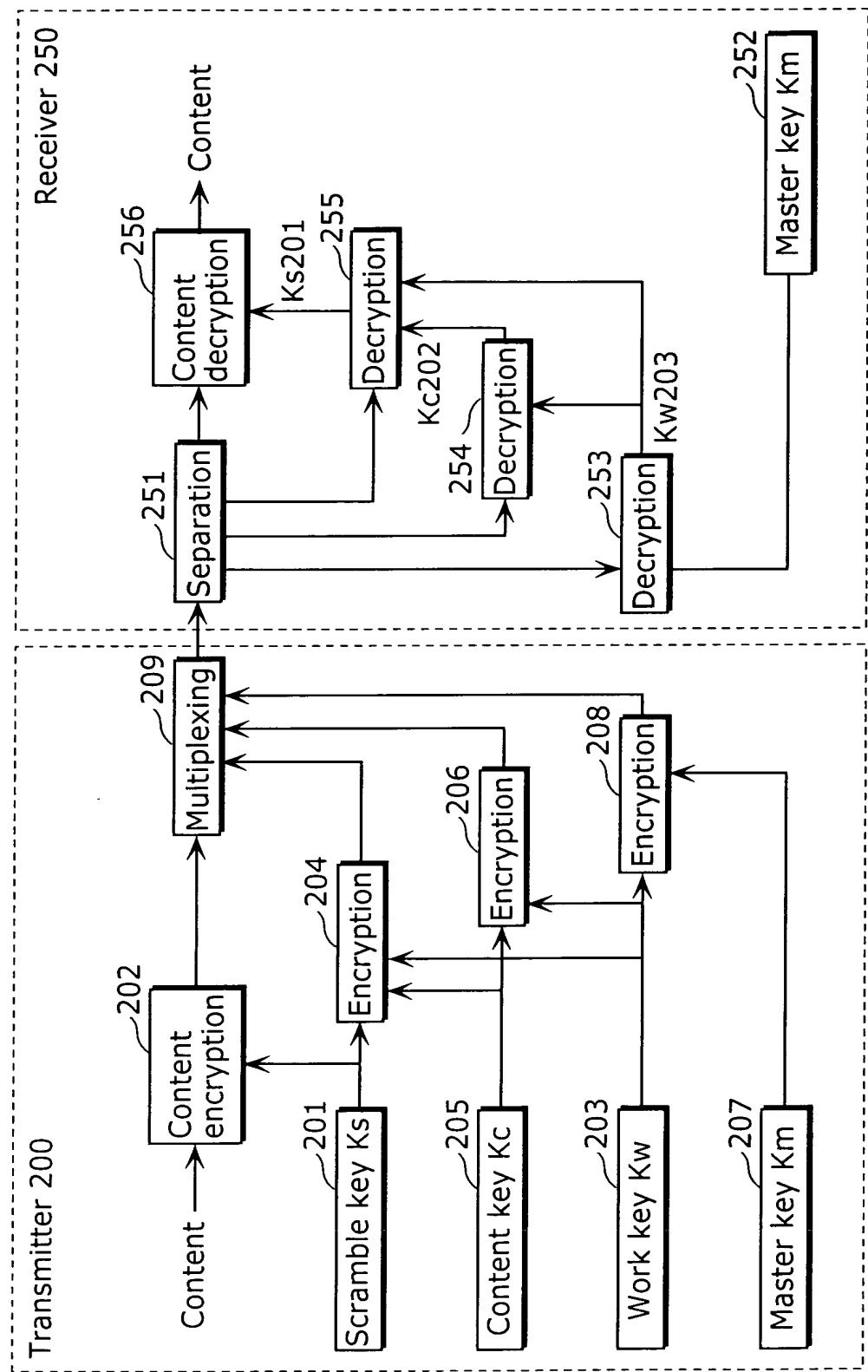


FIG. 3

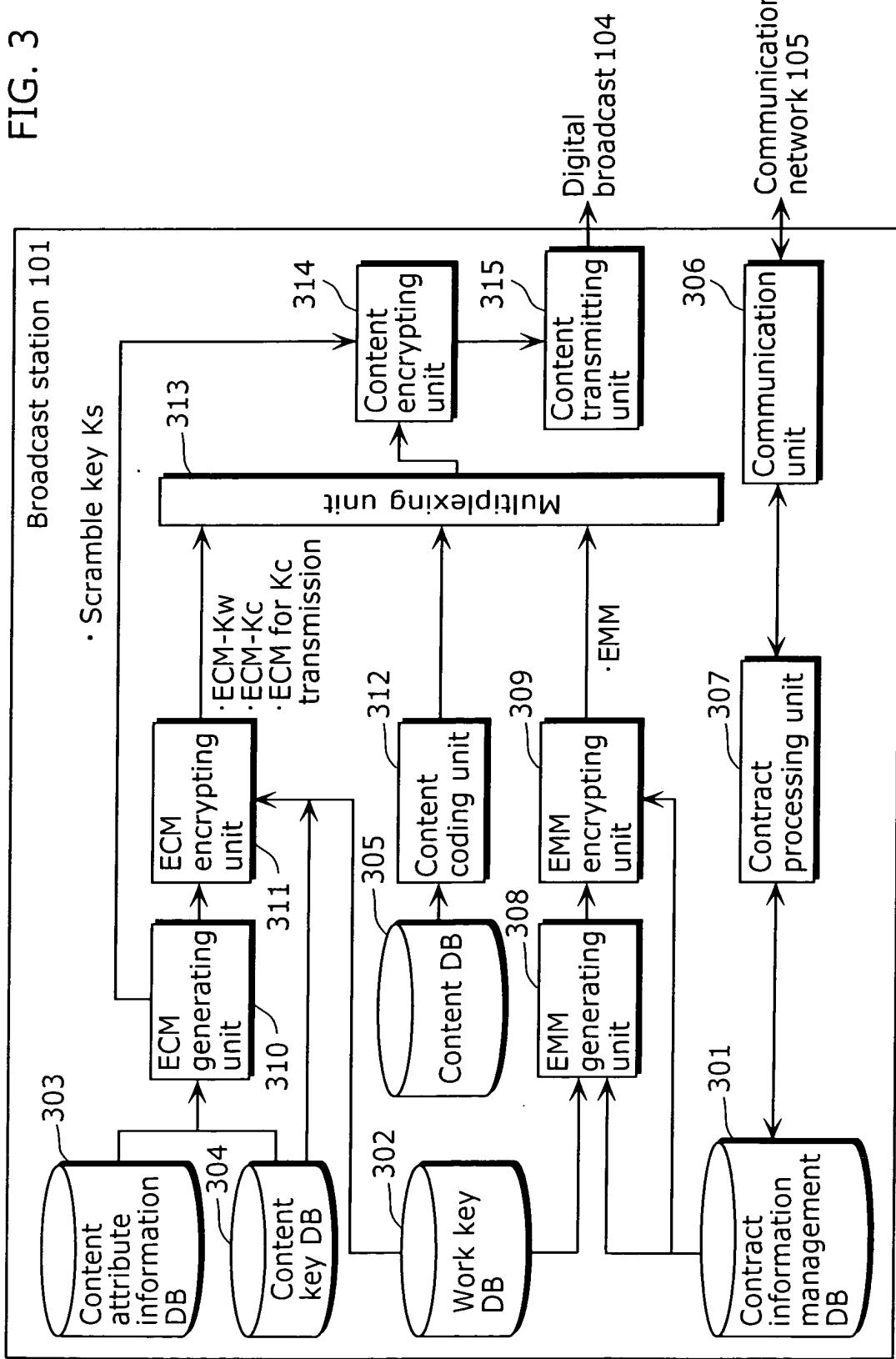


FIG. 4

Card ID	Tier contract ID	PPV contract ID	Validity period	Stored encryption key Km'	Master key Km
CARD-ID-1	TIERCONT-ID-1	PPVCONT-ID-1	2004/4/1~ 2005/3/31	0x111...111	0x111...111
CARD-ID-2	TIERCONT-ID-1	PPVCONT-ID-2	2003/12/1~ 2004/11/30	0x222...222	0x222...222
CARD-ID-3	TIERCONT-ID-2	PPVCONT-ID-1	2004/1/1~ 2004/4/30	0x333...333	0x333...333
CARD-ID-4	TIERCONT-ID-3	PPVCONT-ID-1	2004/1/1~ 2005/3/31	0x444...444	0x444...444
...	...	...	...	...	...

Contract information management table 400

FIG. 5

Work key ID	Work key Kw	Work key use starting date
WK-ID-1	0x123 ... cdf	2003/11/24
WK-ID-2	0x001 ... 999	2004/12/20
...	...	...

501  
502  
503

Work key management table 500

FIG. 6

Content ID	License ID	Use condition	Contract information	License transformation period
CONTENT-ID-1	LICENSE-ID-1	Validity period: 1 month	TIERCONT-ID-1	2004/4/30
CONTENT-ID-2	LICENSE-ID-2	Validity period: 1 month. Reproduction frequency: 10 times	TIERCONT-ID-1 TIERCONT-ID-2	2004/4/15
CONTENT-ID-3	LICENSE-ID-3	Validity period: 3 months	TIERCONT-ID-1	2004/4/25
CONTENT-ID-4	LICENSE-ID-4	Validity period: 3 days. Writing frequency: once	PPVCONT-ID-1	2004/5/1
...	...	...	...	...

Content attribute information management table 600

FIG. 7

Content ID	License ID	Content key Kc
CONTENT-ID-1	LICENSE-ID-1	0x123 ··· cdf
CONTENT-ID-2	LICENSE-ID-2	0x001 ··· 999
CONTENT-ID-3	LICENSE-ID-3	0xabc ··· def
CONTENT-ID-4	LICENSE-ID-4	0x123 ··· 123
...	...	...

Content key management table 700

FIG. 8

Content ID	Content title	Broadcast time	File name
CONTENT-ID-1	Monday sports	2004/4/8 21:00:00	/SPORT/ ... /MONSPORTS. VC
CONTENT-ID-2	GOODBYE13	2004/4/8 22:00:00	/DRAMA/ ... /GOODBYE. VC
CONTENT-ID-3	Dog in the boom	2004/4/10 17:30:00	/ANIME/ ... /AMIBA. VC
CONTENT-ID-4	Sacred vessel 2	2004/5/1 19:00:00	/MOVIE/ ... /JINGI2. VC
...	...	...	...

Content management table 800

FIG. 9

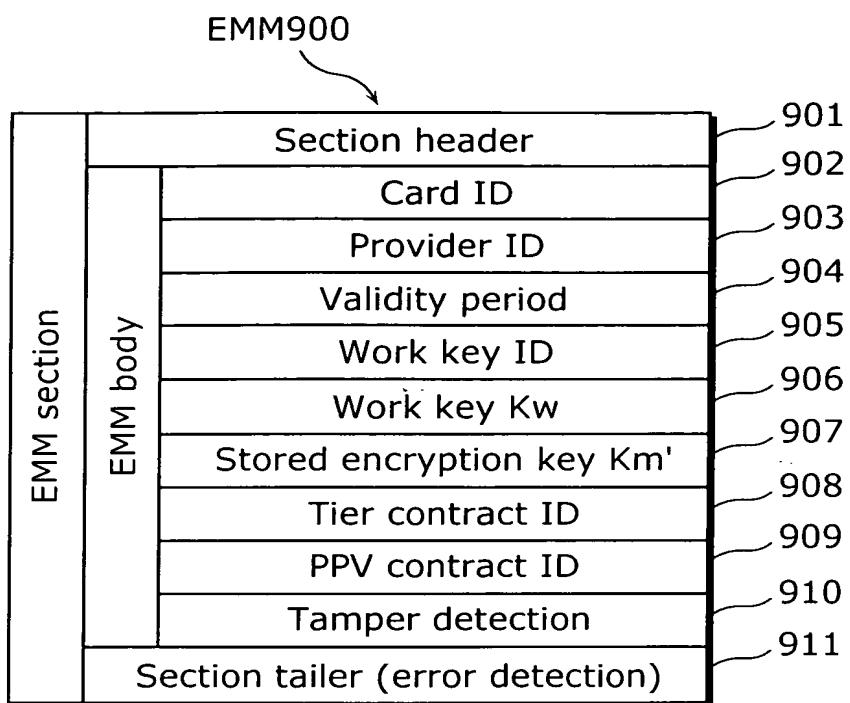


FIG. 10

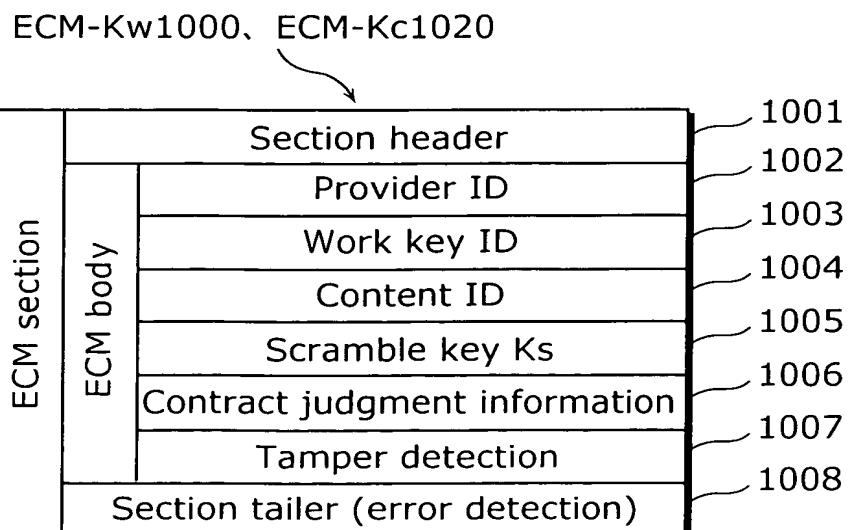


FIG. 11

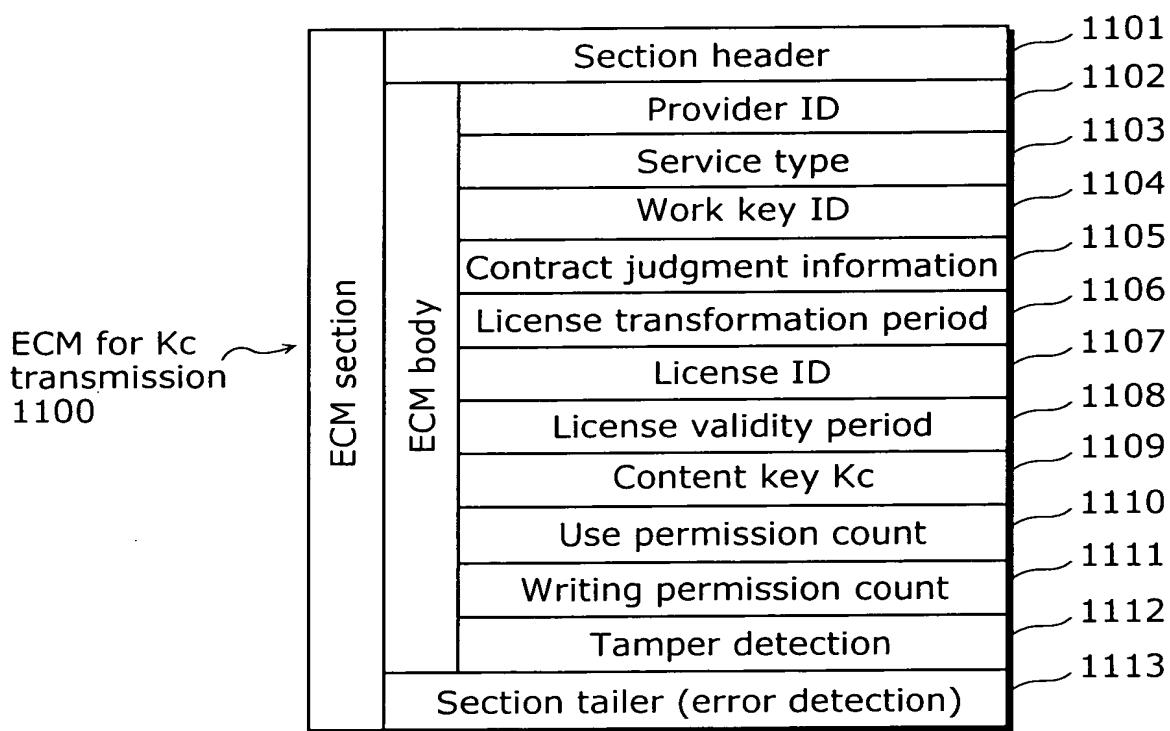


FIG. 12

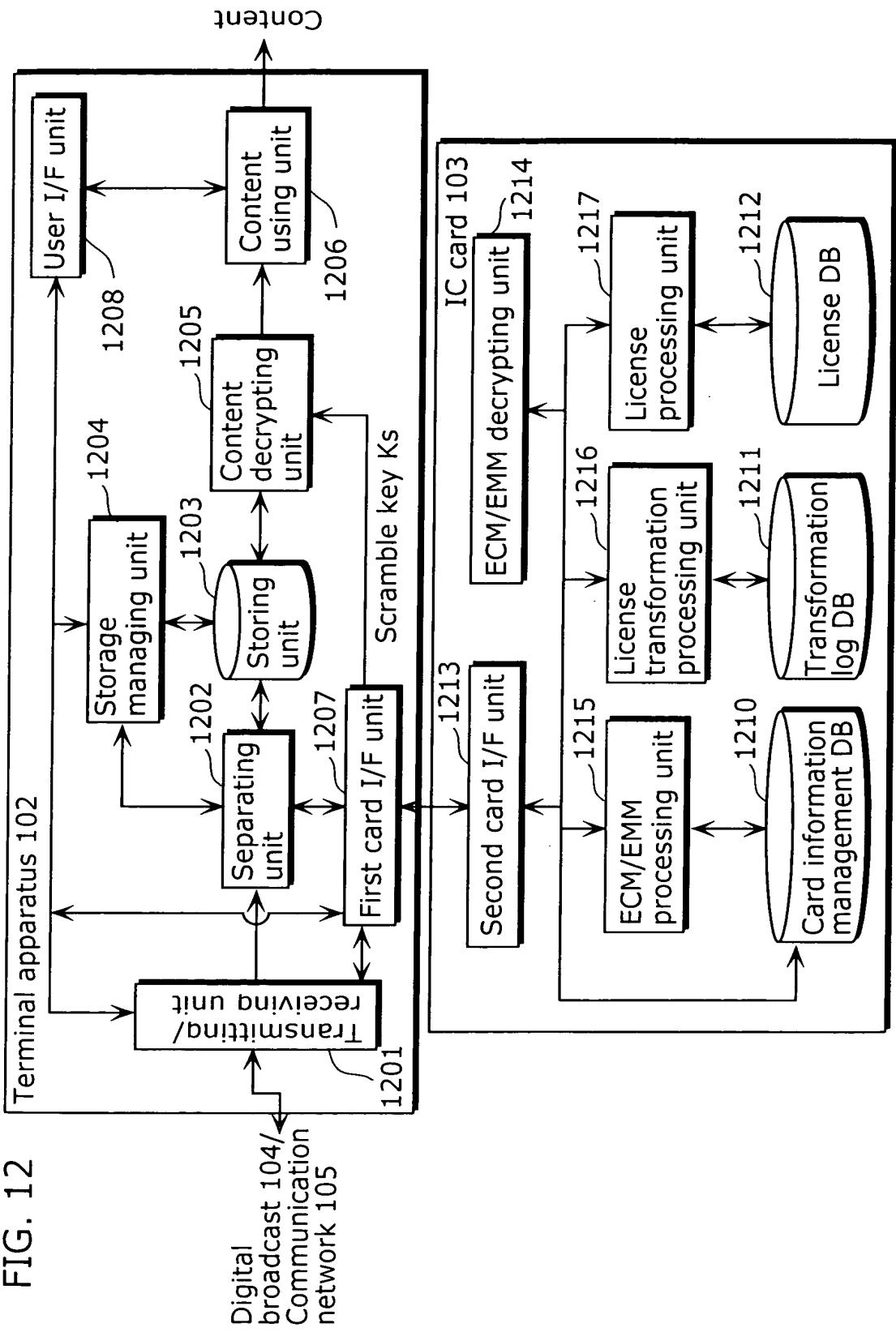


FIG. 13

Card ID	Master key Km	Stored encryption key Km'
0x000 ··· 001	0x111 ··· 111	0x777 ··· 777

Common information table 1300

FIG. 14

Provider ID	Tier contract ID	PPV contract ID	Validity period	Work key ID	Work key Kw
SERVICE-ID-1	TIERCONT-ID-1	PPVCONT-ID-1	2004/4/1~ 2005/3/31	KW-ID-1	0x111...111
SERVICE-ID-10	—	PPVCONT-ID-1	2004/1/1~ 2005/3/31	KW-ID-1	0x555...555
...	...	...	...	...	...

Provider unique information table 1400

FIG. 15

License ID	License transformation period
LICENSE-ID-1	2004/4/30
LICENSE-ID-2	2004/4/15
LICENSE-ID-3	2004/4/25
LICENSE-ID-4	2004/5/1
...	...

1501  
1502  
TL1500

FIG. 16

License 1600

License identifier	1601
License ID	1602
Validity period	1603
Reproduction count	1604
Writing count	1605
Content key Kc	1606
Tamper detection	1607

**FIG. 17**

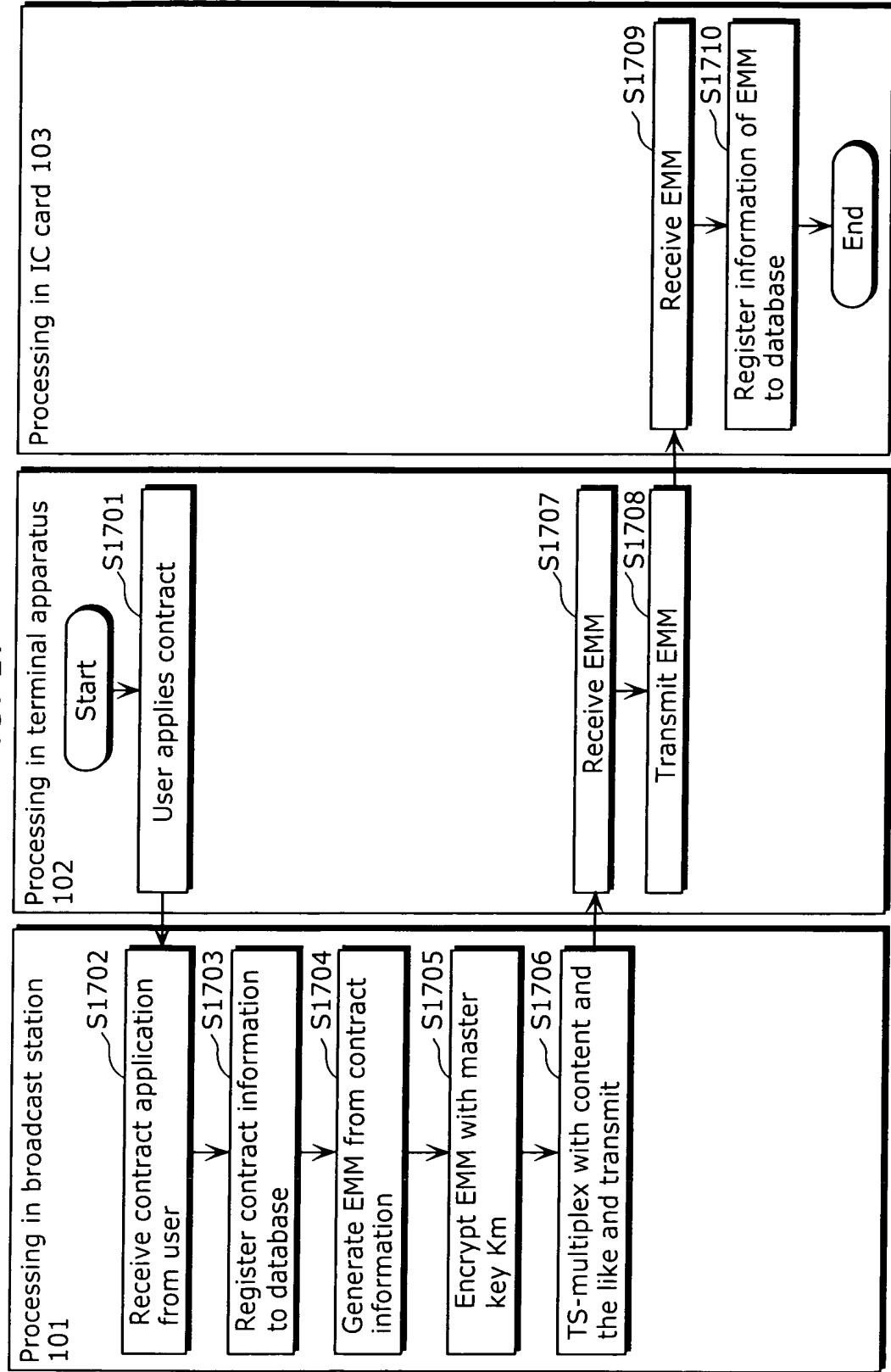


FIG. 18

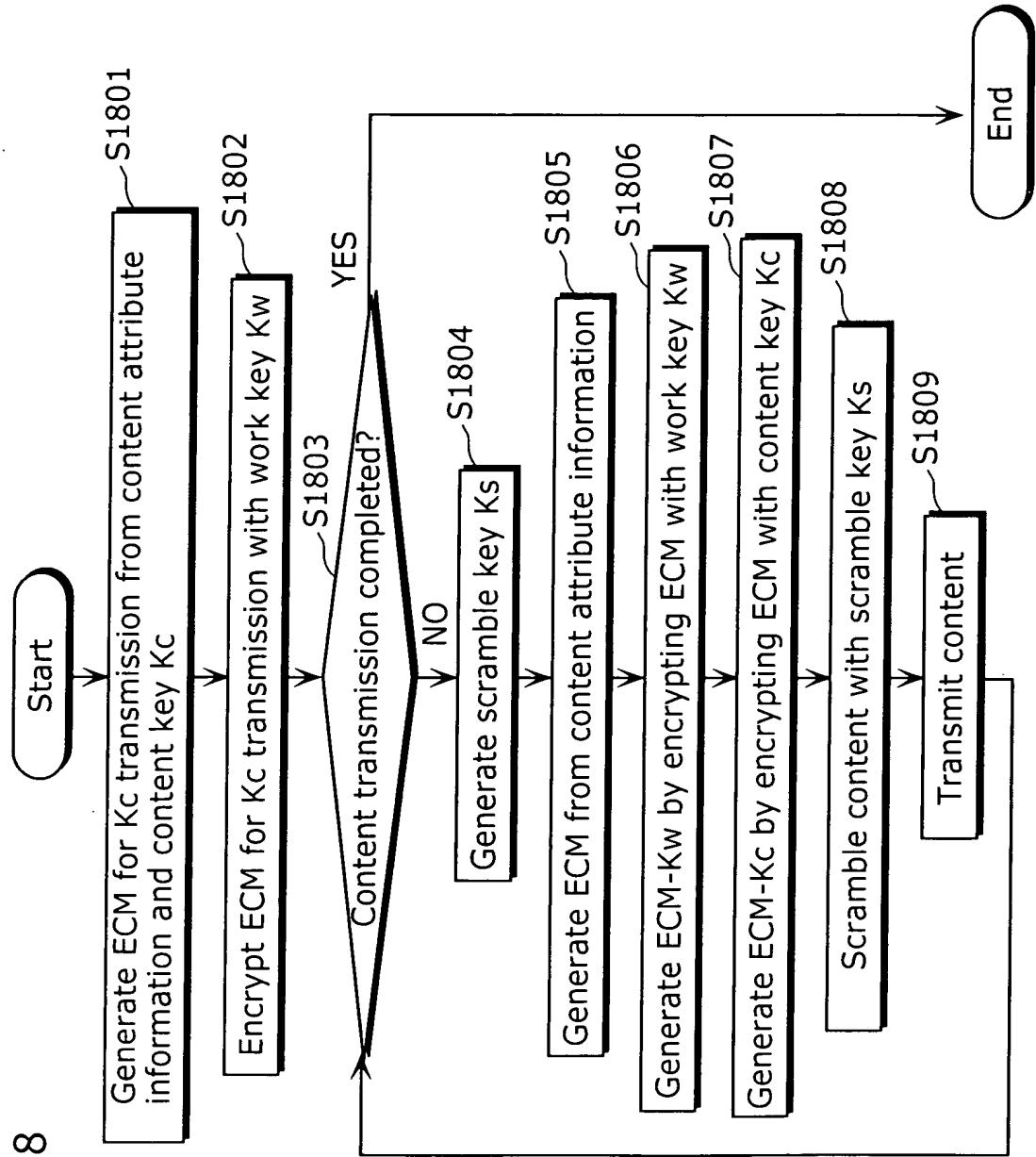


FIG. 19

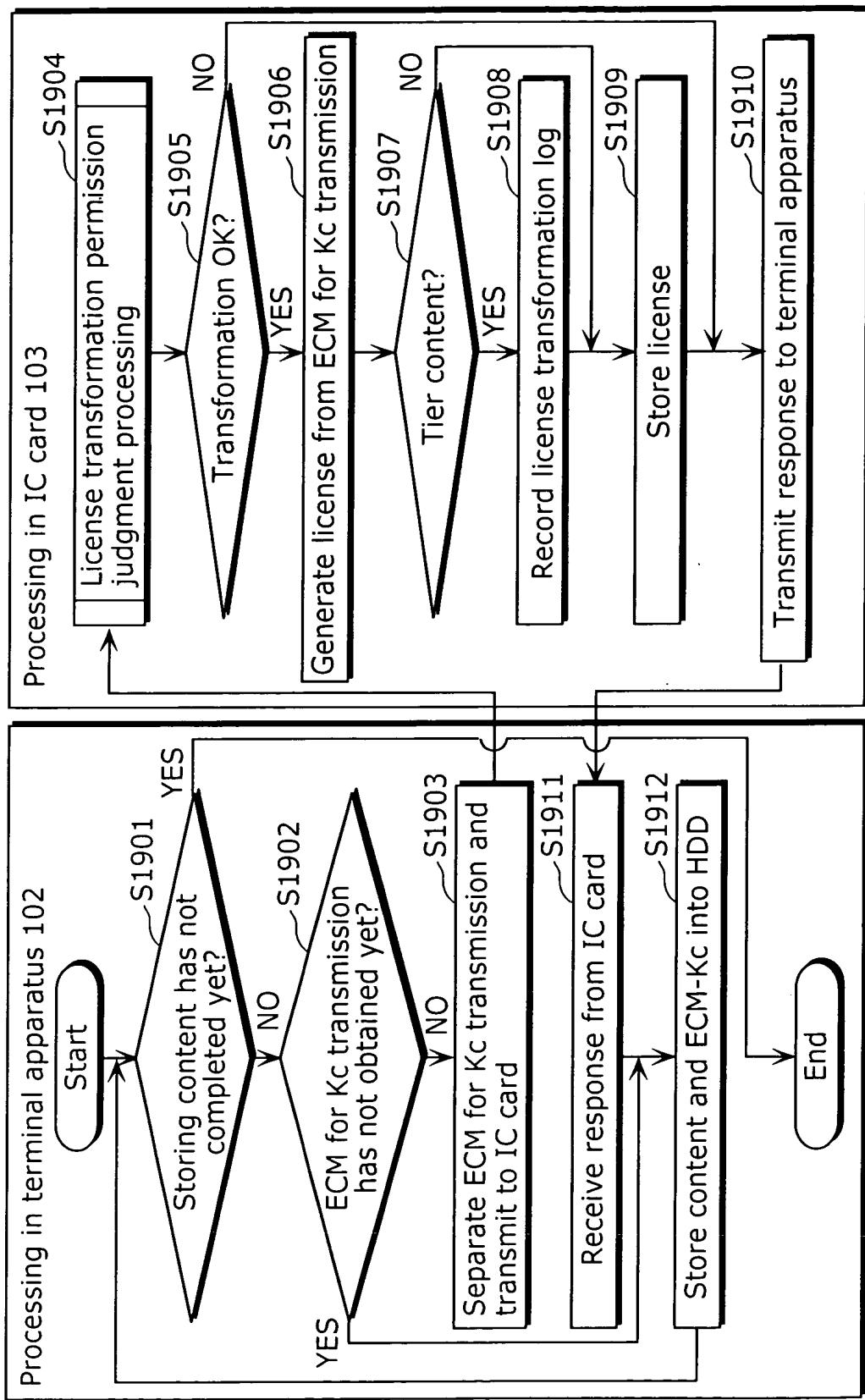


FIG. 20

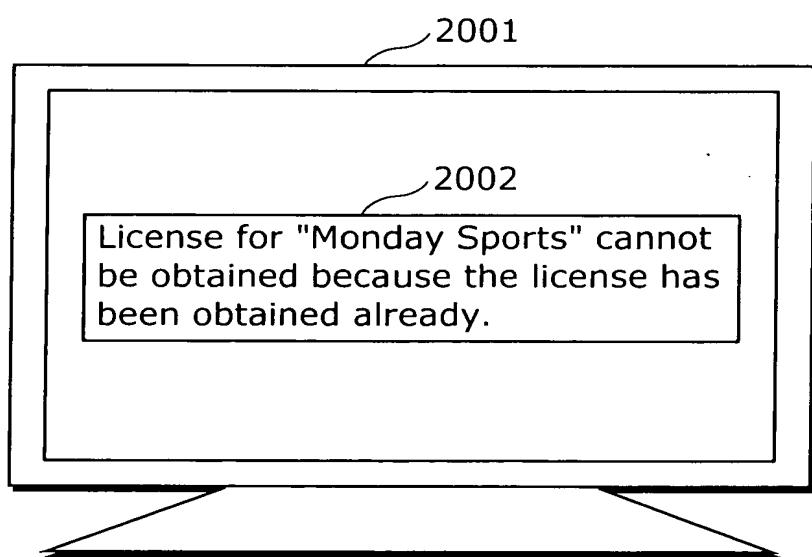


FIG. 21

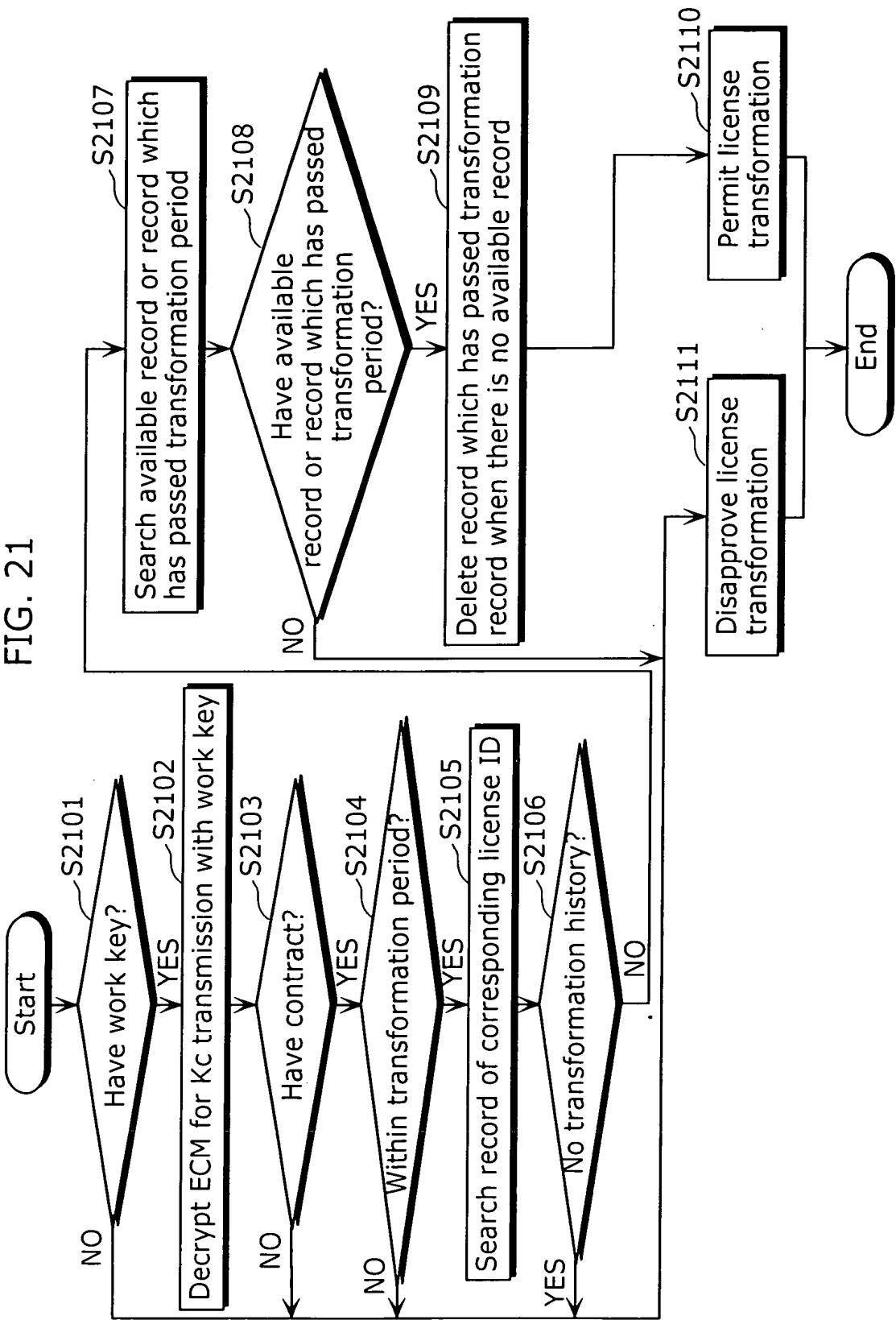


FIG. 22

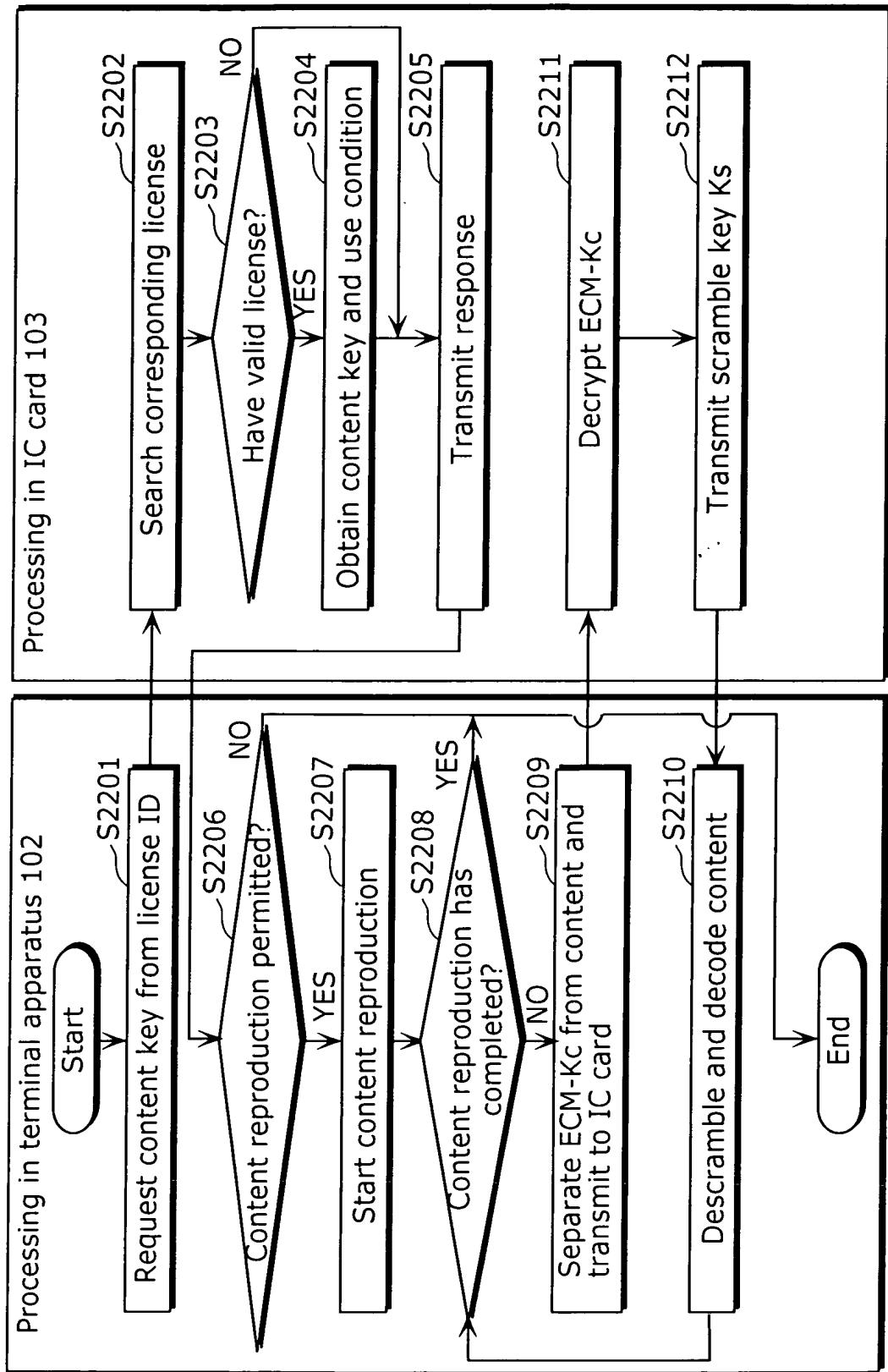


FIG. 23

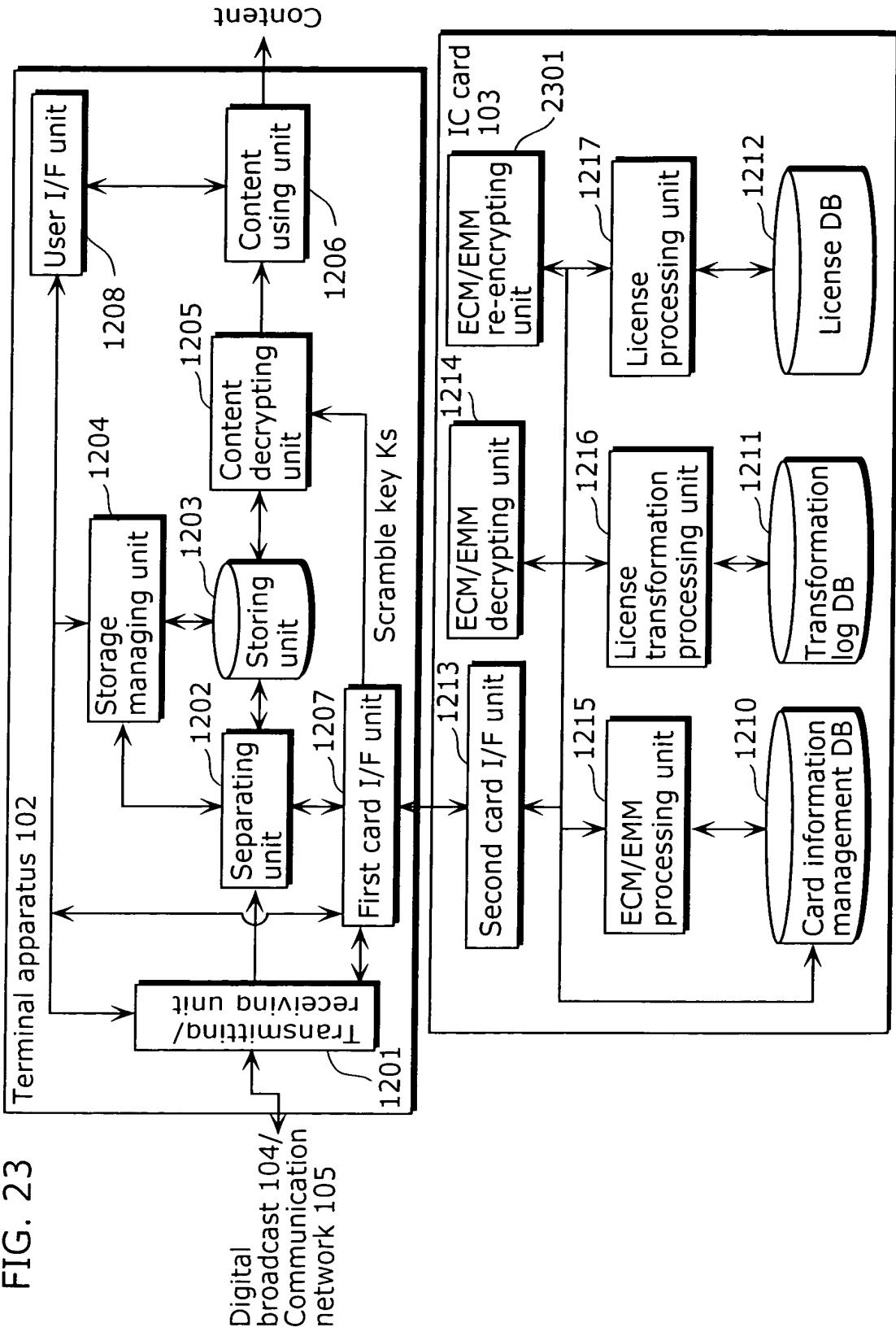
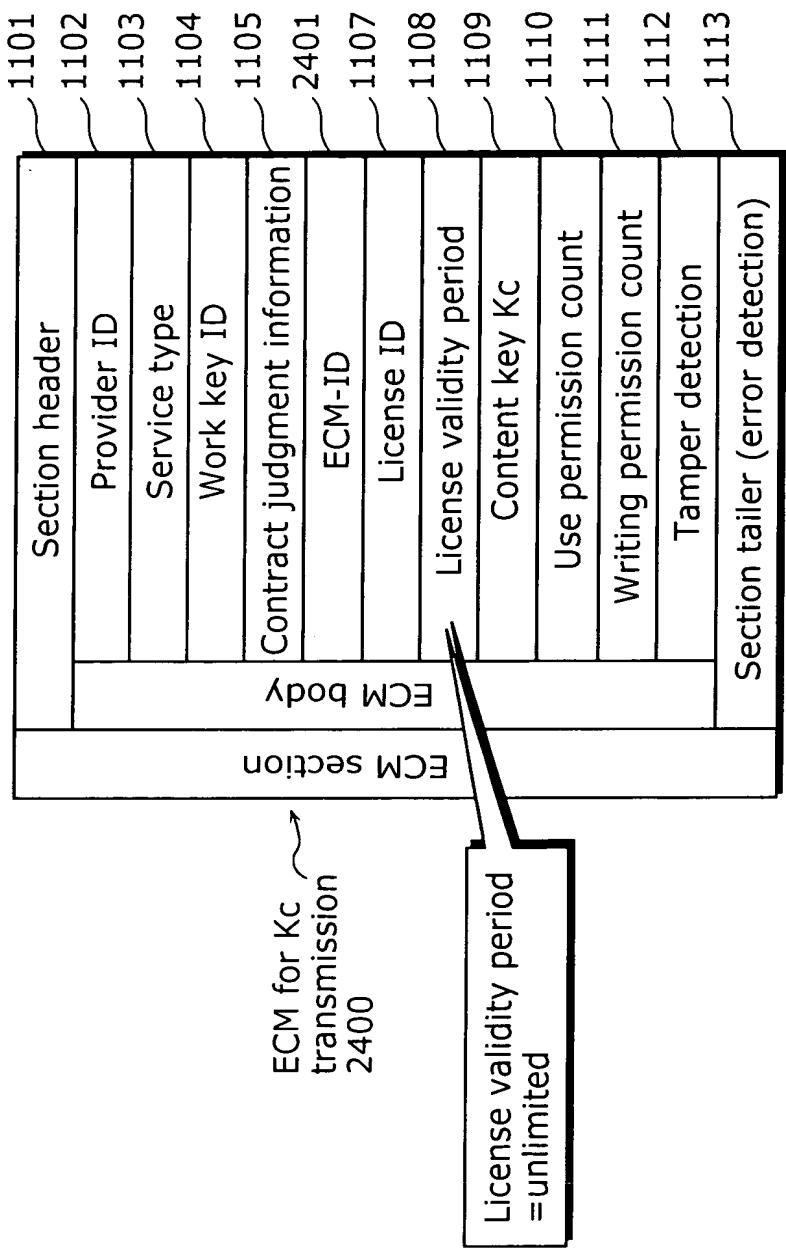


FIG. 24



**FIG. 25**

Provider ID	License ID	Service type	Purchase information	License transformation period	Obtainment license frequency
SERVICE-ID-1	LICENSE-ID-1	TIERCONT	—	2004/4/15	2 times/3 times (2004/4/14, 2004/4/15)
SERVICE-ID-5	LICENSE-ID-2	TIERCONT	—		
SERVICE-ID-30	LICENSE-ID-3	TIERCONT	—	2004/5/15	
SERVICE-ID-2	LICENSE-ID-4	PPVCONT	Purchased (2004/4/25)		once/once (2004/4/24)
...	...	...	...	...	...

TL2500

FIG. 26

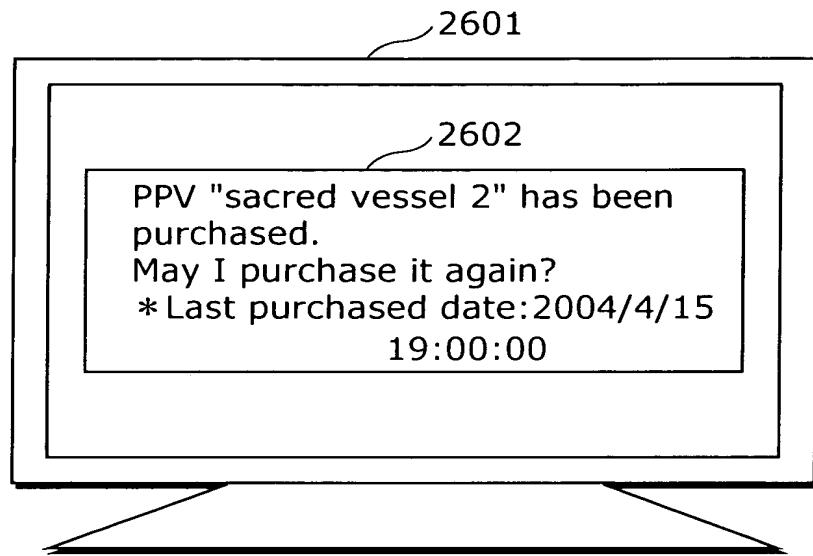


FIG. 27

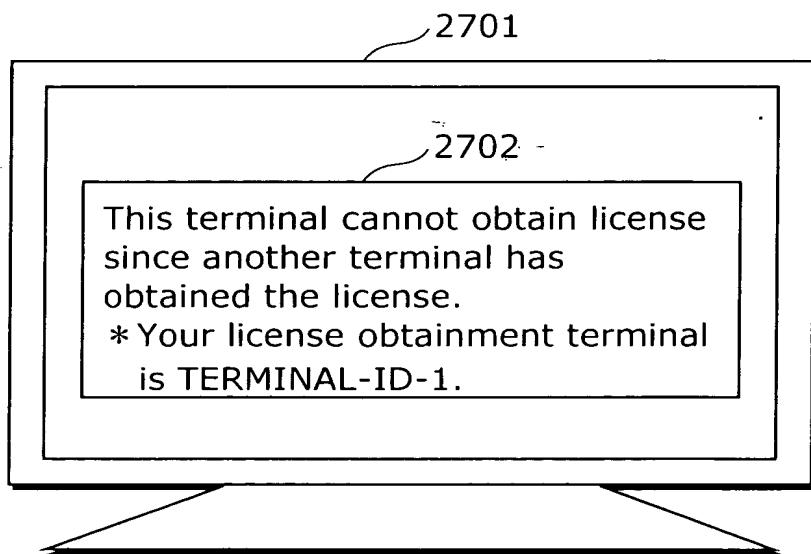


FIG. 28

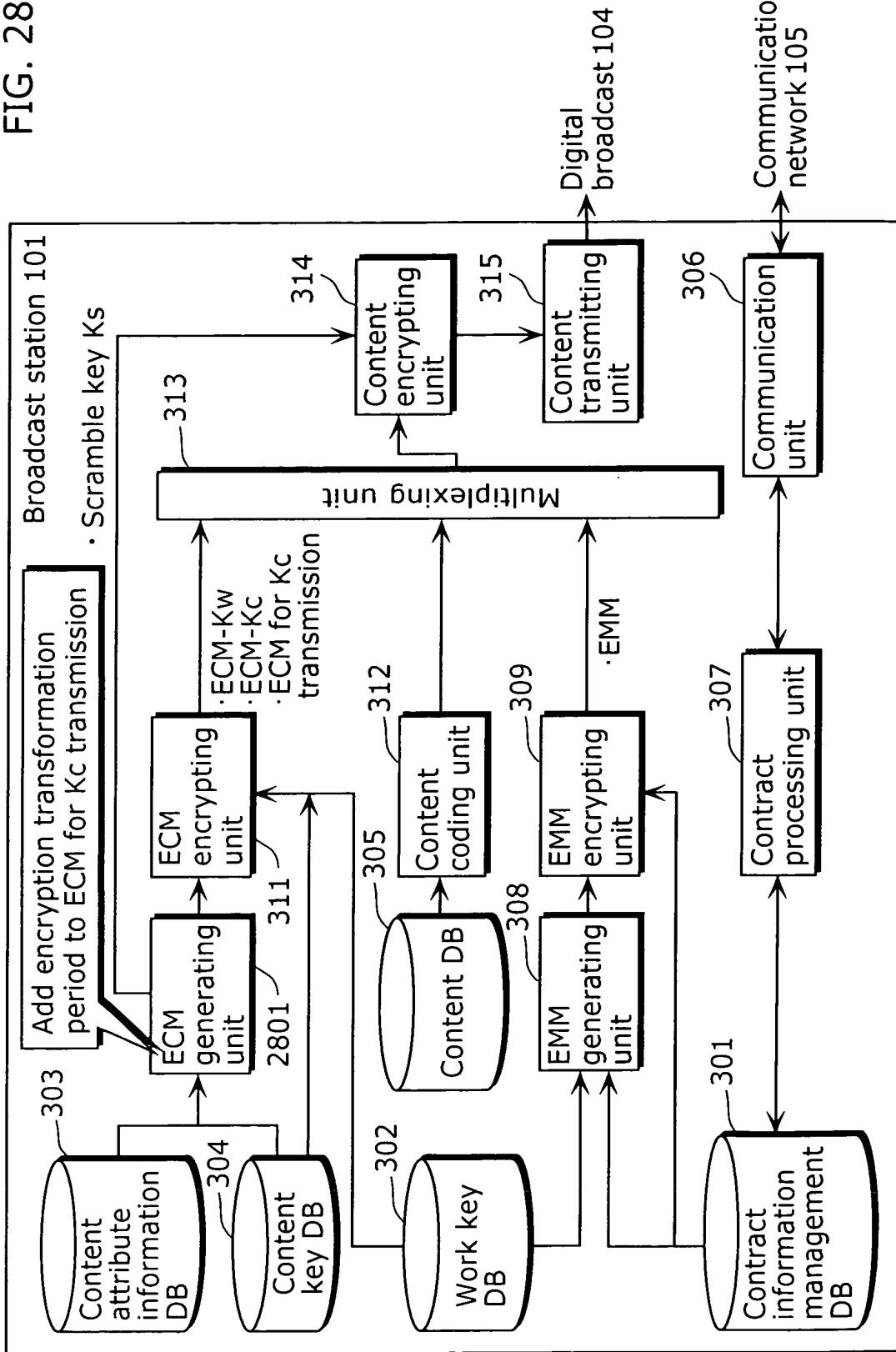


FIG. 29

Content ID	License ID	Use condition	Contract information	Encryption transformation period
CONTENT-ID-1	LICENSE-ID-1	Validity period: 1 month	TIERCONT-ID-1	2004/4/15
CONTENT-ID-2	LICENSE-ID-2	Validity period: 1 month. Reproduction count: 10 times	TIERCONT-ID-1 TIERCONT-ID-2	2004/4/18
CONTENT-ID-3	LICENSE-ID-3	Validity period: 3 months	TIERCONT-ID-1	2004/4/17
CONTENT-ID-4	LICENSE-ID-4	Validity period: 3 days. Writing count: once	PPVCONT-ID-1	2004/5/14
...	...	...	...	...

FIG. 30

Content ID	Content title	Broadcast time	File name
CONTENT-ID-1	Monday sports	2004/4/8 21:00:00	/SPORT/ ...MONSPORTS. VC
CONTENT-ID-2	GOODBYE13	2004/4/8 22:00:00	/DRAMA/ ...GOODBYE. VC
CONTENT-ID-3	Dog in the boom	2004/4/10 17:30:00	/ANIME/ ...AMIBA. VC
CONTENT-ID-4	Sacred vessel 2	2004/5/1 19:00:00	/MOVIE/ ...JINGI2. VC
...	...	...	...

Content management table 3000

**FIG. 31**

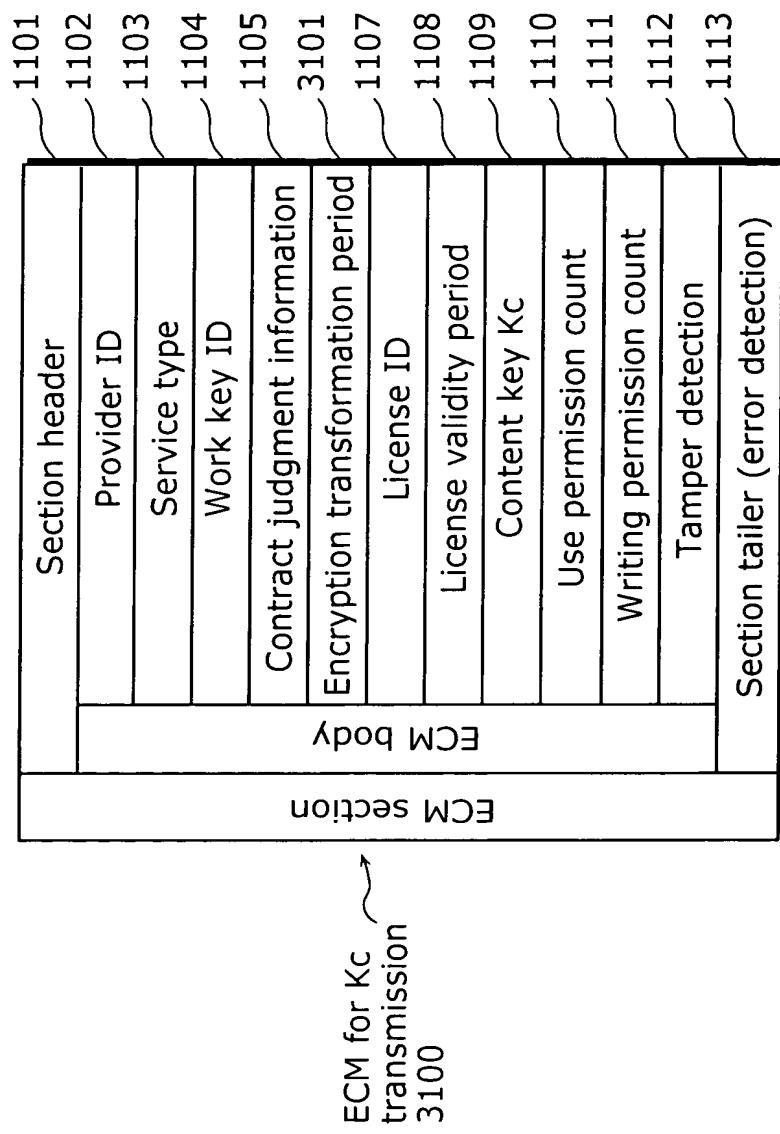


FIG. 32

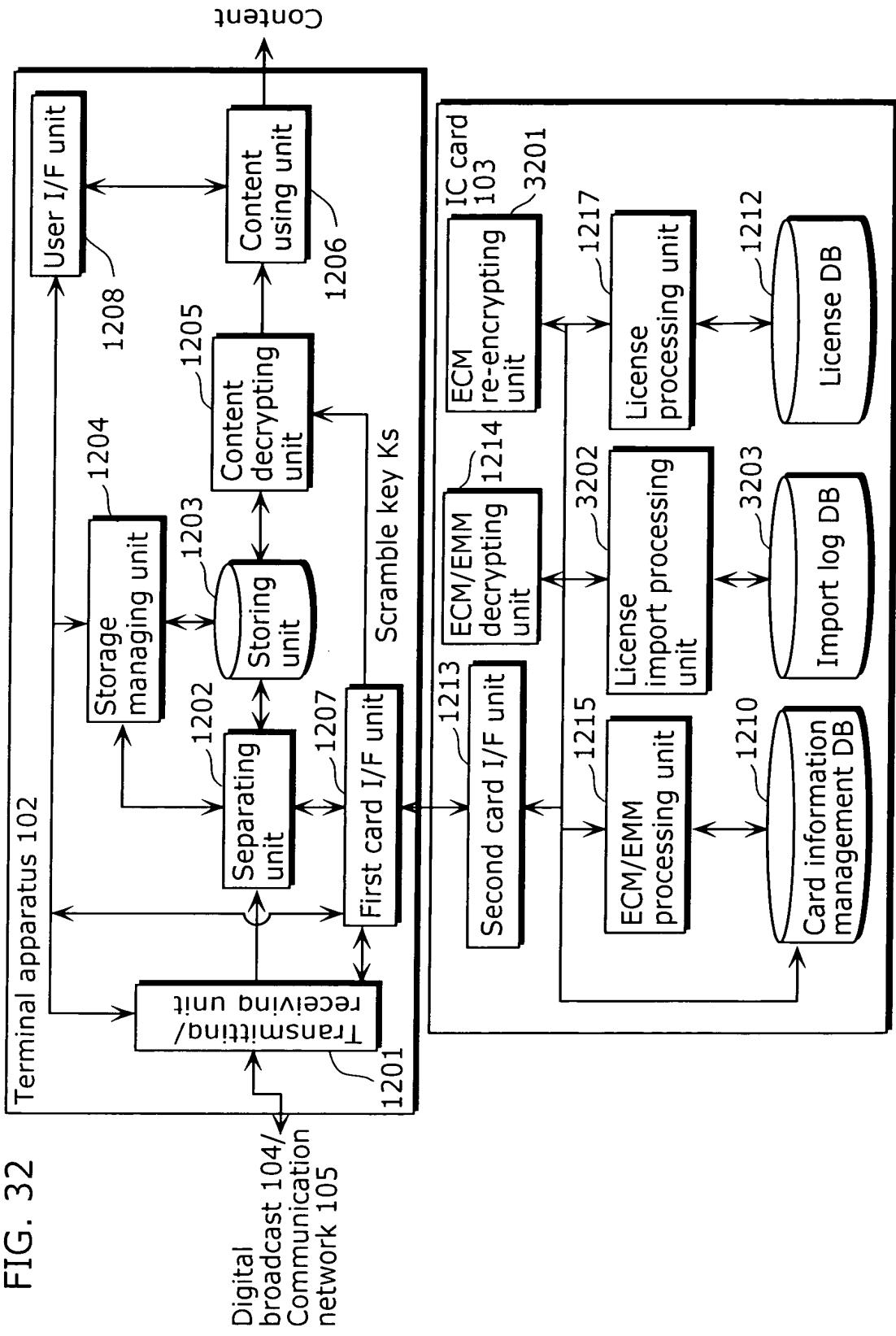


FIG. 33

License ID	License validity period
LICENSE-ID-1	2004/5/8
LICENSE-ID-2	2004/5/8
LICENSE-ID-3	2004/7/10
LICENSE-ID-4	2004/5/4
...	...

3301                  3302

Import log table 3300

FIG. 34

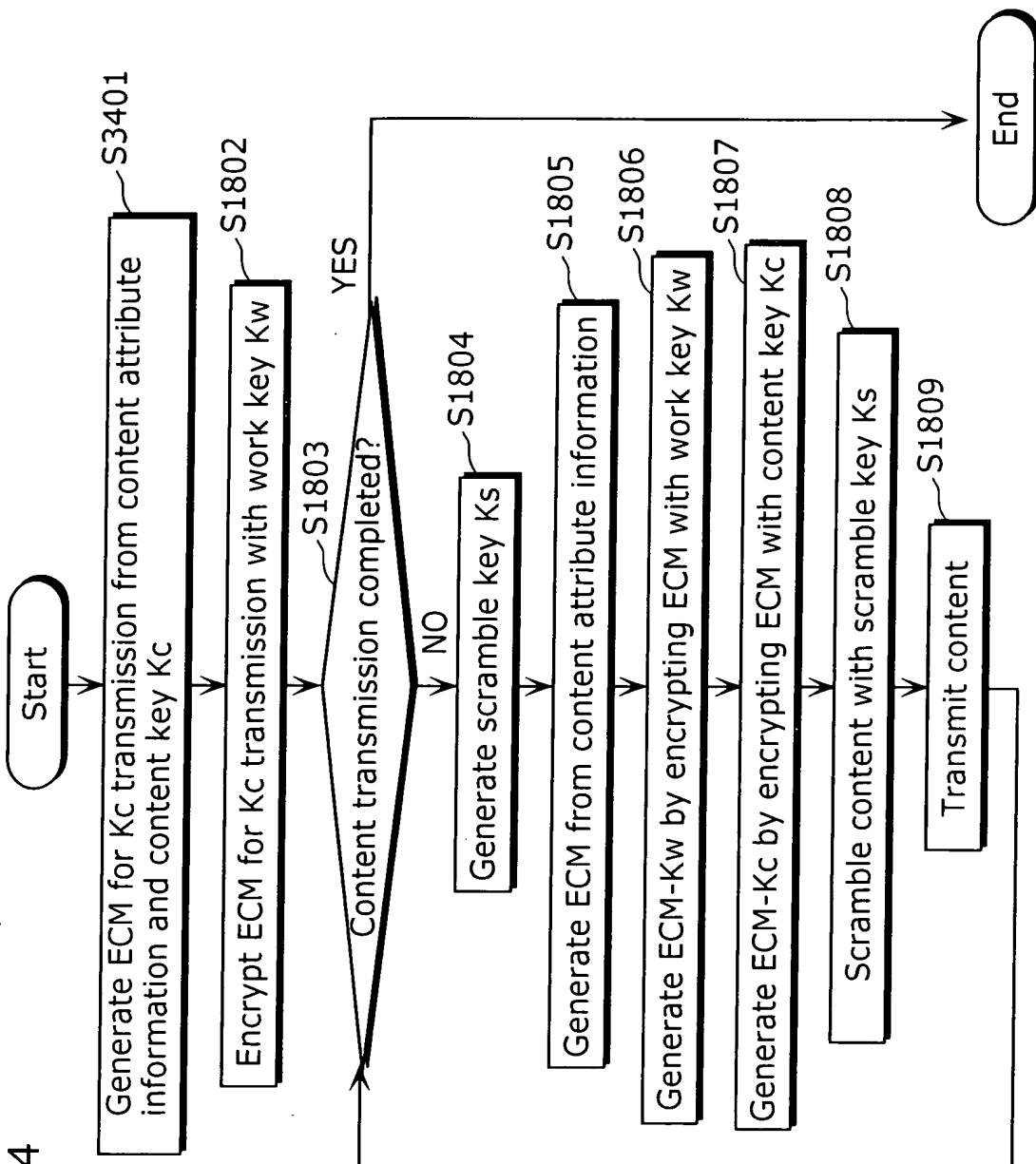


FIG. 35

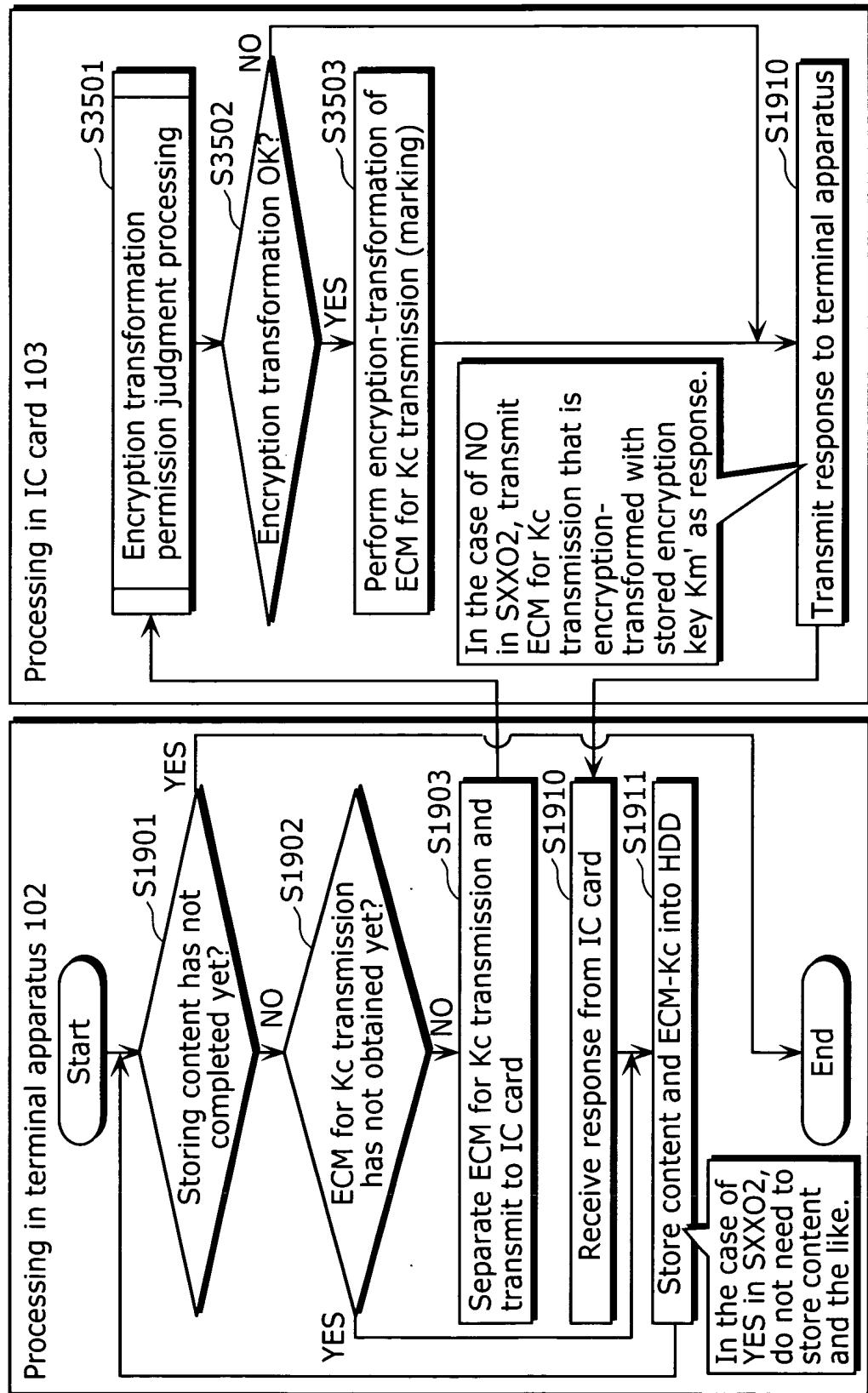


FIG. 36

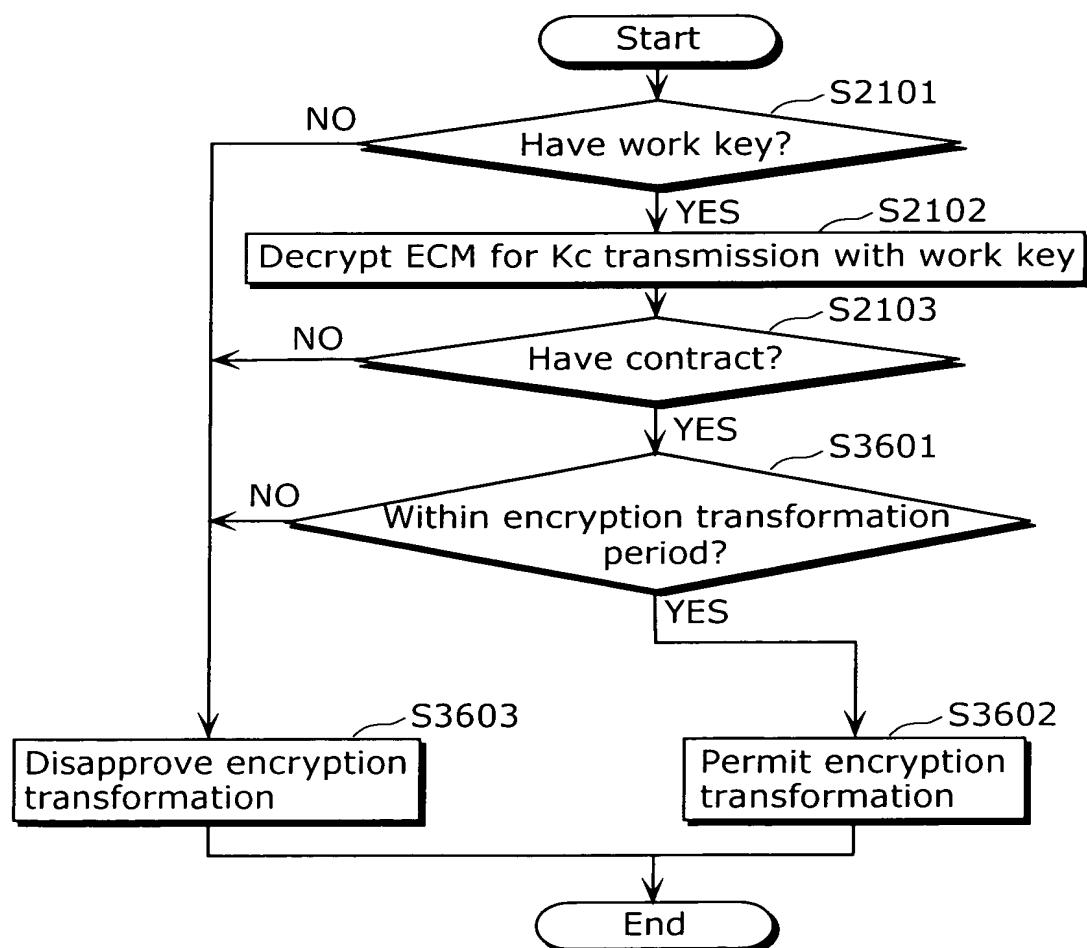


FIG. 37

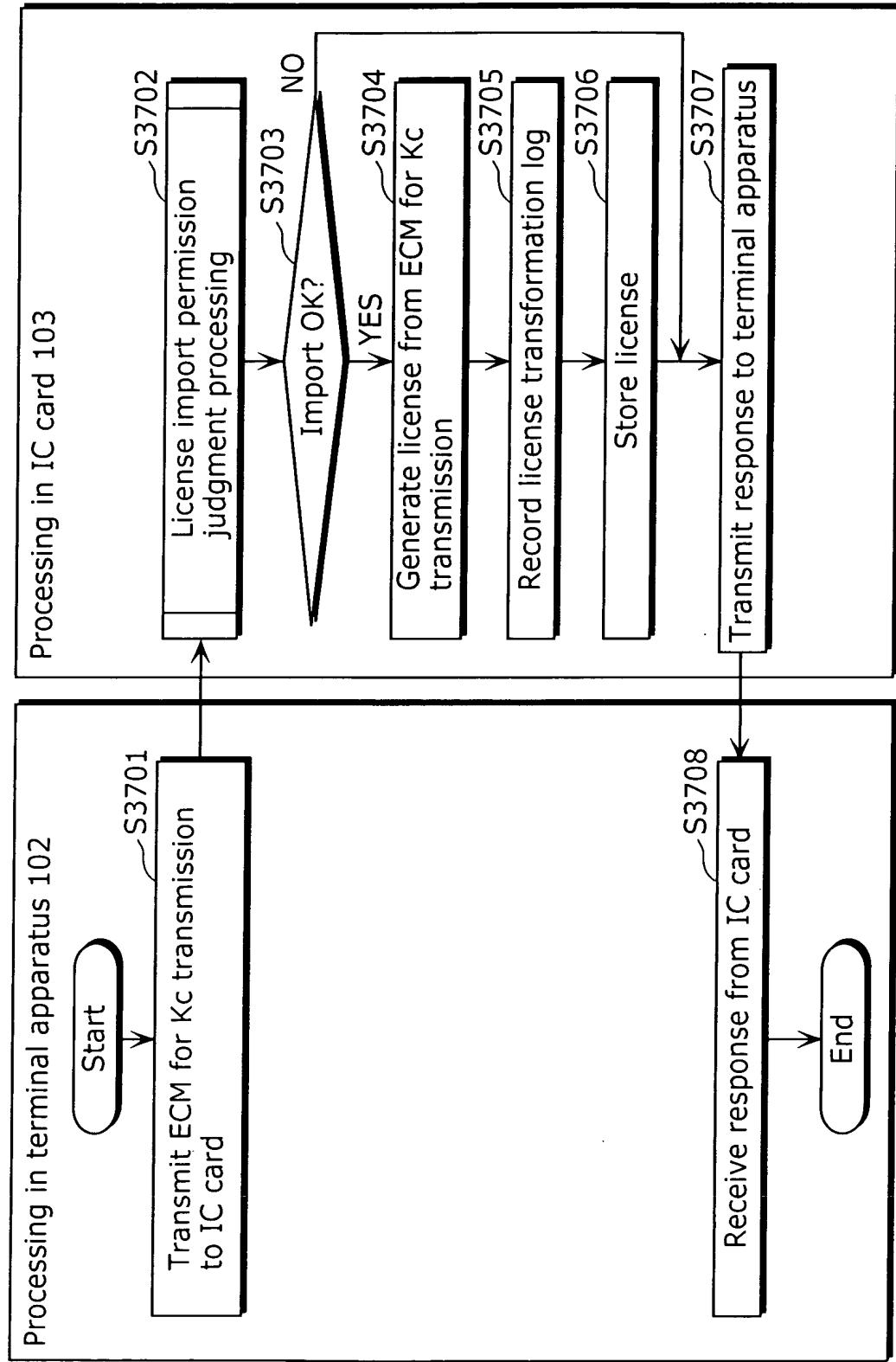


FIG. 38

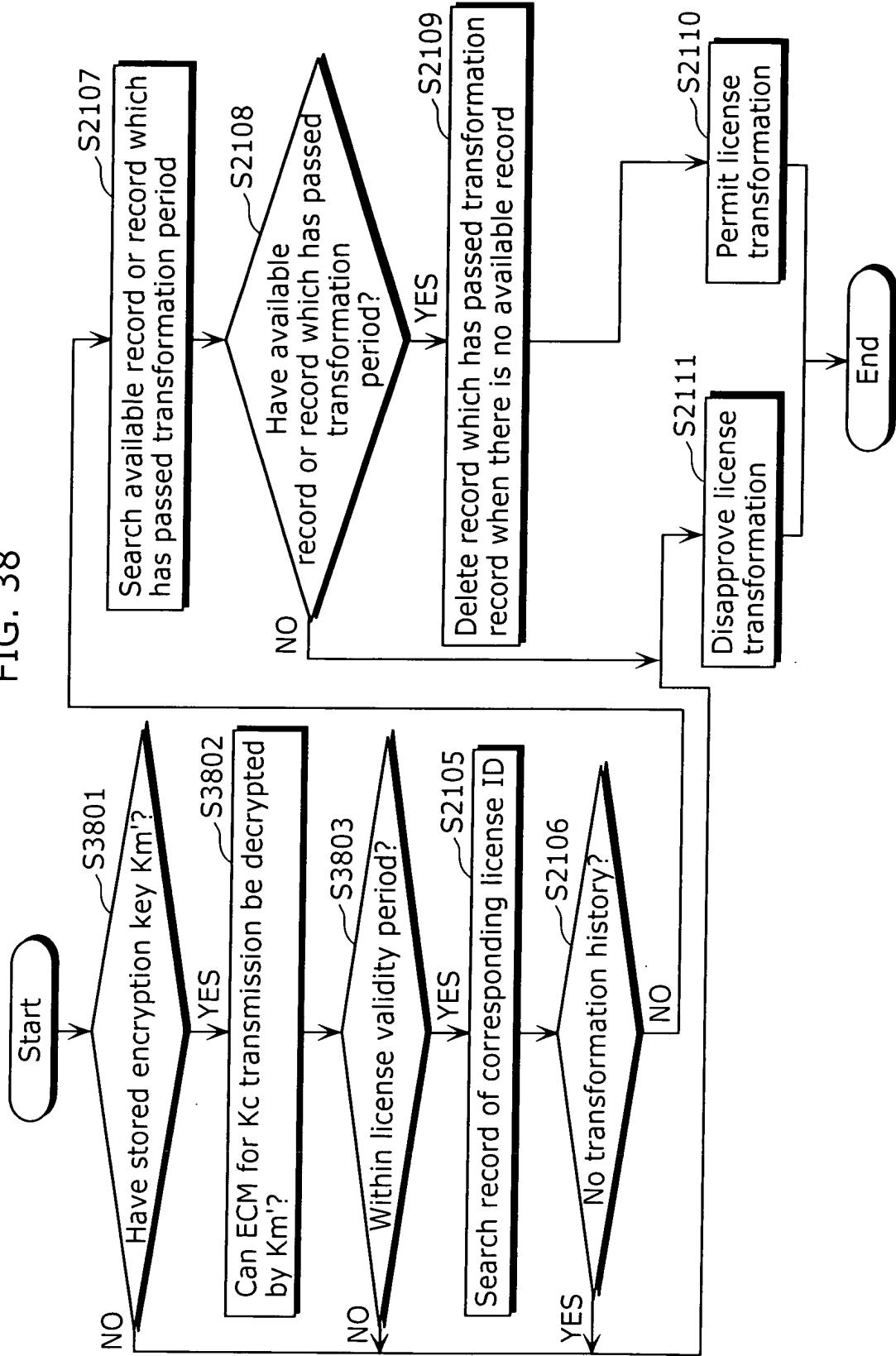


FIG. 39

Package ID	Validity period	In-package license ID	Obtained license ID
PKG-ID-1	2004/5/8	LICENSE-ID-1 LICENSE-ID-2 ... LICENSE-ID-10	LICENSE-ID-1 LICENSE-ID-2
PKG-ID-2	2004/5/8	LICENSE-ID-100 LICENSE-ID-101 ... ...	LICENSE-ID-101 ... ...
...	...	...	...

Import log table (IL: Import List) 3900

FIG. 40

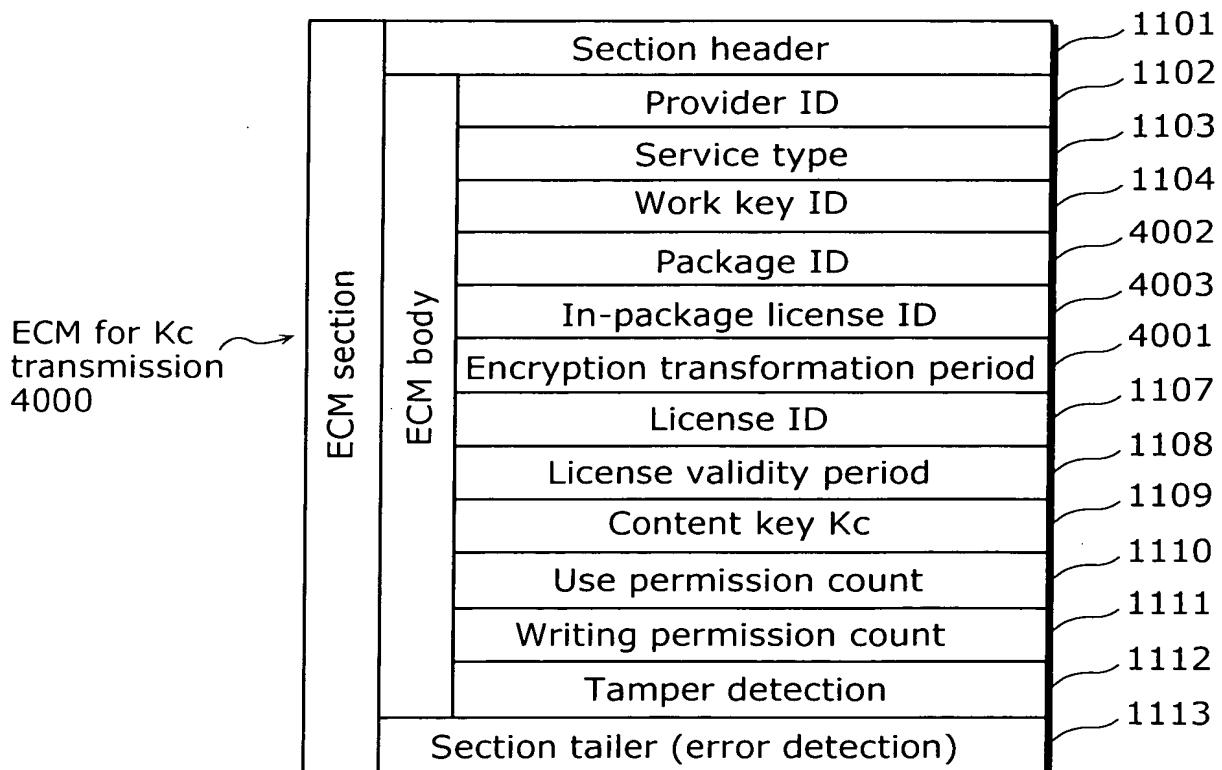


FIG. 41

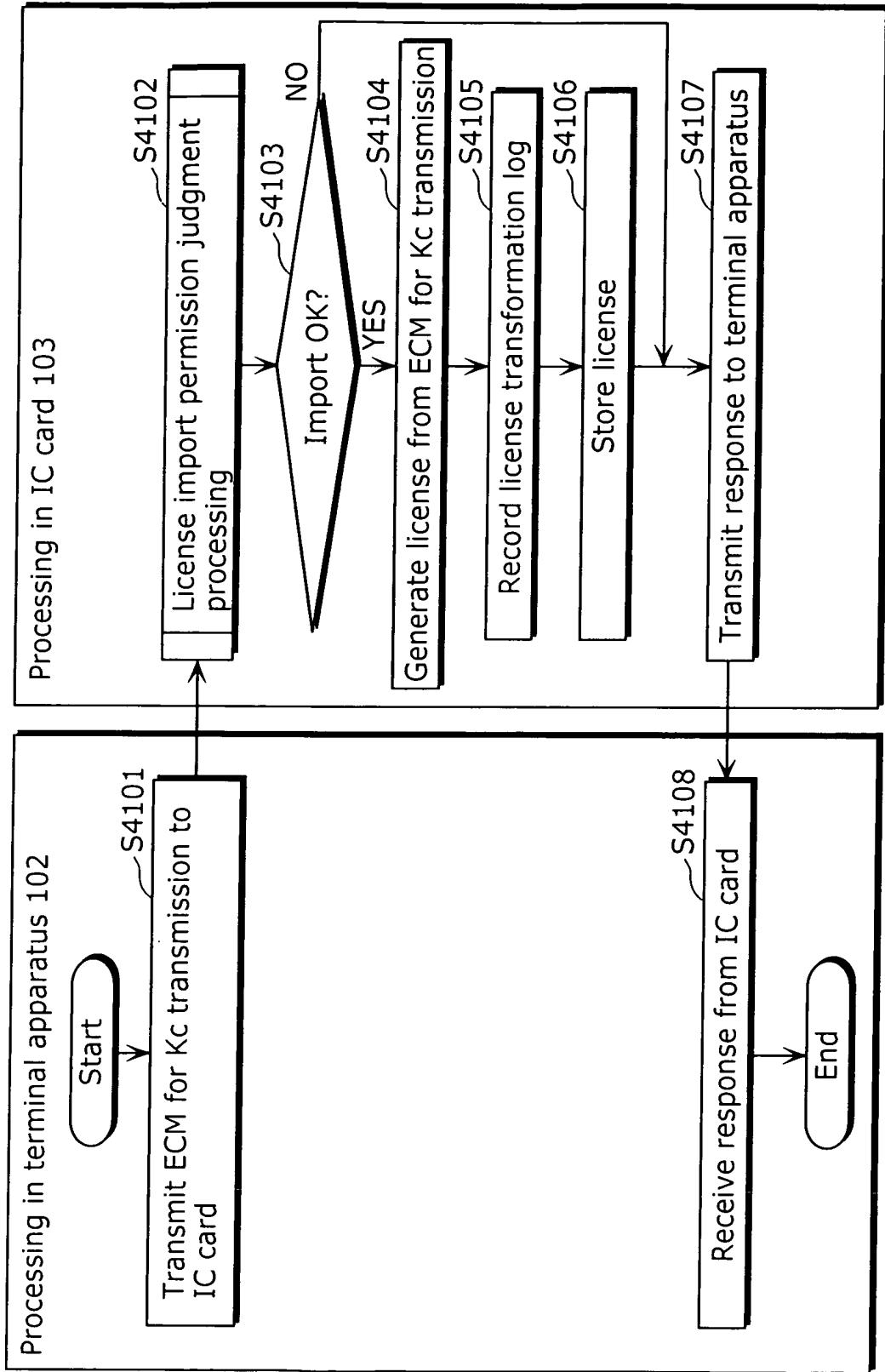


FIG. 42

